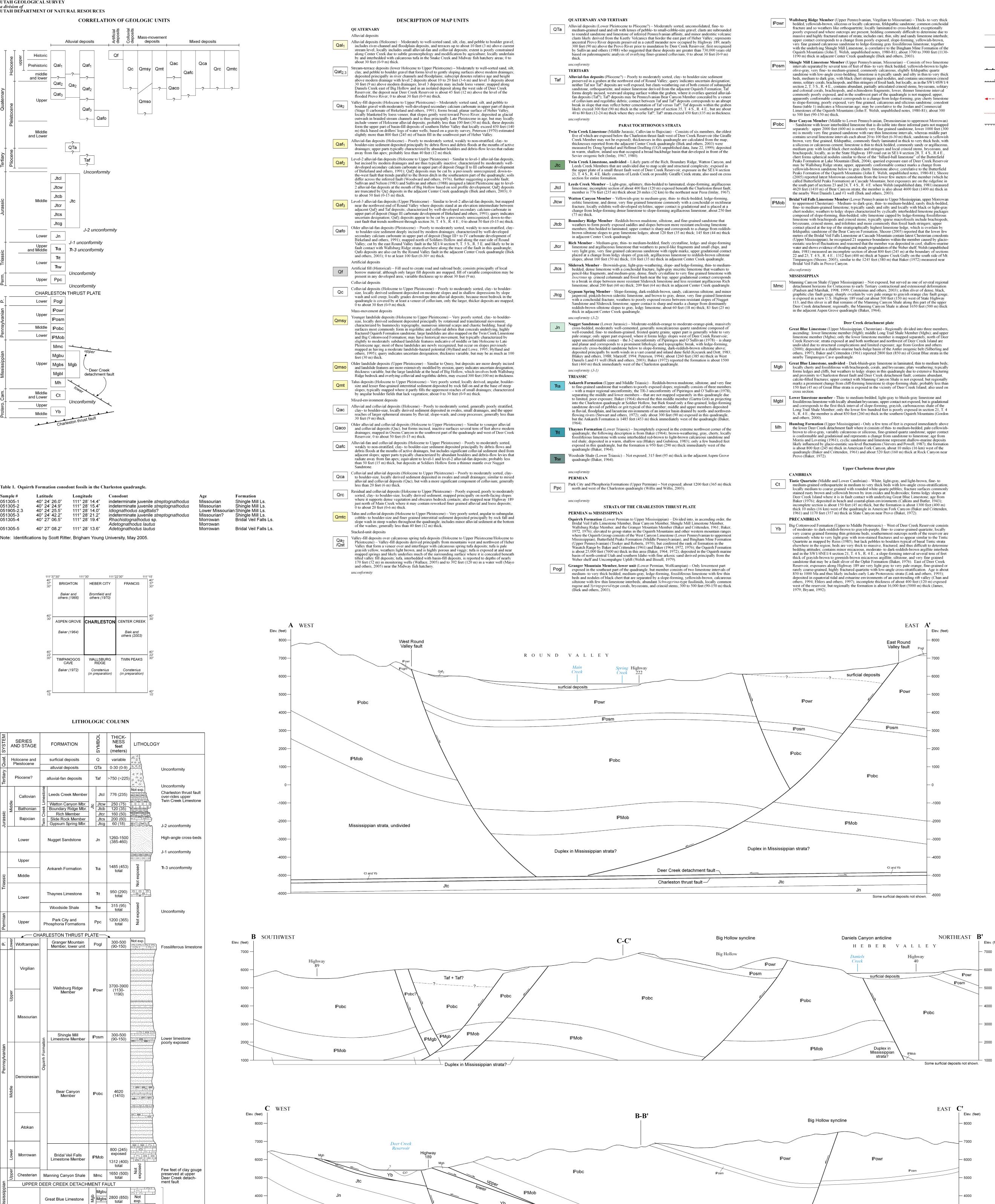
Utah Geological Survey a division of Utah Geological Survey Open-File Report 452 Interim Geologic Map of the Charleston Quadrangle **Utah Department of Natural Resources** 468 | 111°22', 30" 780 000 WALLSBURG 750 000 NATIONAL 22 This geologic map was funded by the Utah Geological Survey and the U.S. Geological Survey, Scale 1:24,000 Field mapping by authors in 2004 National Cooperative Geologic Mapping Program through USGS STATEMAP award number 04HQAG0040. The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S Government. This open-file release makes information available to the public during the review and production period necessary for a formal UGS publication. It is in the review process and may not conform to UGS standards, therefore it may be premature for an individual or group to take actions based on its contents. Although this product represents the work of professional scientists, the Utah Department of Natural Resources, Utah Geological Survey, makes no warranty, expressed or implied, regarding its suitability for a particular use. The Utah Department of Natural Resources, Utah Geological Survey, shall not be liable under any circumstances for any direct, indirect, special, incidental, or consequential damages with respect to claims by users of this product.

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MgbI

Mh

€t

Yb

Humbug Formation

Tintic Quartzite

Big Cottonwood Formation

CHARLESTON THRUST FAULT

LOWER DEER CREEK DETACHMENT FAULT

800 (245)

total

(400) total 400 (120) ex-

ncomplete sections

preserved between

and upper and lower

Charleston thrust

detachment faults

Contact not exposed

Open-File Report 452 Interim Geologic Map of the Charleston Quadrangle GEOLOGIC SYMBOLS

Contact - Dashed where approximately located, queried where uncertain

Normal fault - Dashed where approximately located, dotted where concealed, queried where existence uncertain; bar and ball on downthrown side; no bar and ball indicates fault with uncertain offset

Thrust fault - Dotted where concealed; sawteeth on upper plate

Detachment fault - Dashed where approximately located, dotted where concealed; semi-circles on downthrown side; arrow and number indicates dip of fault

Approximate axial trace of syncline, showing direction of plunge; dotted where Concealed trace of anticline

Landscape scarp - Hachures on downdropped side

Strike and dip of inclined bedding - Red symbols indicate attitudes from J.E. Welsh (unpublished map, 1981) Strike and dip of inclined bedding determined photogrammetrically (blue symbols)

25 Approximate strike and dip of inclined bedding

Horizontal bedding

Quarry X Sand and gravel pit

x Prospect

Approximate location of selected water well with depth to bedrock in feet (120) or minimum depth of basin fill (>120) in feet CO51305-1 Sample location and number

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Surficial deposits not shown.